

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start		Rating **	A	Issue No.	19
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0001_01_s _ 2016_19				
Comment Code					
Inspector Comment					
The LMA has emergency supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	28
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0001_01_s _ 2013_28				
Comment Code					
Inspector Comment					
The LMA has O&M manuals.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start		Rating **	A	Issue No.	29
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_MA0001_01_s_2013_29				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2016.					

No Photos

LM Start	0.01	Rating **	N	Issue No.	92
LM End	0.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		39.214000 °	39.214000 °	
			-122.001077 °	-122.001077 °	
DWR ID	DWR_MA0001_01_f_2016_92				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	0.09	Rating **	M	Issue No.	94
LM End	0.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		39.214217 °	39.214217 °	
			-122.002378 °	-122.002378 °	
DWR ID	DWR_MA0001_01_f_2016_94				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Repair the erosion along the damaged slope.					

Photo 1 of 1 : SP_2017_MA0001_297_94_20170315_00027.jpg



View of the slope instability along the landside slope.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	0.10	Rating **	M	Issue No.	95
LM End	0.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.214275 °	39.214275 °
				-122.002558 °	-122.002558 °
DWR ID	DWR_MA0001_01_f_2016_95				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the arundo to maintain visibility along the landside toe.					

Photo 1 of 1 : SP_2017_MA0001_297_95_20170315_00028.jpg



View of the arundo along the landside toe.

LM Start	0.23	Rating **	M	Issue No.	96
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.215180 °	39.215180 °
				-122.004712 °	-122.004712 °
DWR ID	DWR_MA0001_01_f_2016_96				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_96_20170315_00029.jpg



View of the erosion along the waterside slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	0.25	Rating **	N	Issue No.	97
LM End	0.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.215343 °	39.215343 °
				-122.005100 °	-122.005100 °
DWR ID	DWR_MA0001_01_f_2016_97				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	0.38	Rating **	M	Issue No.	98
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.215878 °	39.215878 °
				-122.007278 °	-122.007278 °
DWR ID	DWR_MA0001_01_f_2016_98				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_98_20170315_00030.jpg



View of the slope instability along the waterside slope.

LM Start	0.49	Rating **	M	Issue No.	100
LM End	0.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.215800 °	39.215800 °
				-122.009402 °	-122.009402 °
DWR ID	DWR_MA0001_01_f_2016_100				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_100_20170315_00032.jpg



View of an overgrown bush obstructing visibility.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	0.53	Rating **	N	Issue No.	101
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.215808 °	39.215808 °
				-122.009995 °	-122.009995 °
DWR ID	DWR_MA0001_01_f_2016_101				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	0.67	Rating **	M	Issue No.	102
LM End	0.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.216513 °	39.216642 °
				-122.012440 °	-122.012773 °
DWR ID	DWR_MA0001_01_f_2016_102				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_102_20170315_00033.jpg



View of a tree obstructing visibility and access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	0.68	Rating **	N	Issue No.	103
LM End	0.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.216560 °	39.216560 °
				-122.012530 °	-122.012530 °
DWR ID	DWR_MA0001_01_f_2016_103				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_103_20170315_00034.jpg



View of a tree stump along the waterside slope.

LM Start	1.11	Rating **	M	Issue No.	104
LM End	1.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.220728 °	39.220728 °
				-122.015885 °	-122.015885 °
DWR ID	DWR_MA0001_01_f_2016_104				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_104_20170315_00035.jpg



View of a slope instability issue along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	1.92	Rating **	M	Issue No.	640
LM End	1.92	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.231866 °	39.231866 °
				-122.015442 °	-122.015442 °
DWR ID					

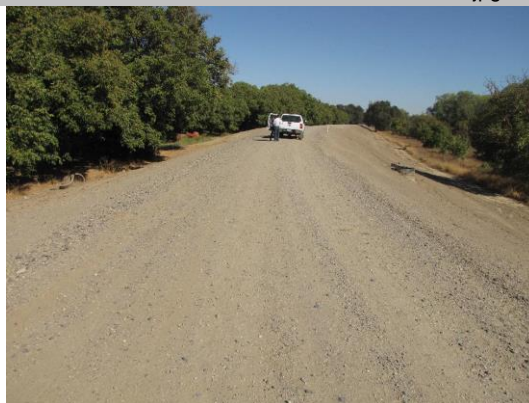
Comment Code

Inspector Comment

FS_ID:51852
DS_ID:16430
EP_NO: 9487
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 WS end still partially plugged. (DWR Sutter Yard- A Freitag)10/24/2016 WS end is still partially plugged. (DWR Sutter Yard- A Freitag)4/25/2016 WS pipe end is still plugged with soil. Rest of the pipe appeared to be in good condition.4/20/2015 WS pipe end is plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still clogged about 50% by sediment.10/18/2012 Remove dirt and debris in riser. Outlet deformed and blocked over 50%. Debris-round concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt.
FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser located on the waterside (WS) slope. Pipe daylights on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho)
[Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].
FS Date: 5/19/2017 1:20:29 PM

LM Start	1.92	Rating **	M	Issue No.	640 (cont)
LM End	1.92	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_51852_70064.jpg



Overview of levee crown and slopes looking upstream towards crossing.

Photo 2 of 3 : UCIP_SP_2017_51852_70063.jpg



View of WS looking upstream at CMP riser on slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	1.92	Rating **	M	Issue No.	640 (cont)
LM End	1.92	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.231866 °	39.231866 °
				-122.015442 °	-122.015442 °
DWR ID					

Photo 3 of 3 : UCIP_SP_2017_51852_70062.jpg



View of LS looking upstream at crossing.

Comment Code

Inspector Comment

FS_ID:51852
 DS_ID:16430
 EP_NO: 9487
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 5/3/2017 WS end still partially plugged. (DWR Sutter Yard- A Freitag) 10/24/2016 WS end is still partially plugged. (DWR Sutter Yard- A Freitag) 4/25/2016 WS pipe end is still plugged with soil. Rest of the pipe appeared to be in good condition. 4/20/2015 WS pipe end is plugged about 50% by soil. 6/18/2014 Same as last inspection. 12/17/2013 Same as last inspection. 7/18/2013 WS pipe end has been reformed but is still clogged about 50% by sediment. 10/18/2012 Remove dirt and debris in riser. Outlet deformed and blocked over 50%. Debris-round concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt.
 FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser located on the waterside (WS) slope. Pipe daylights on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho)
 [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].
 FS Date: 5/19/2017 1:20:29 PM

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	1.92	Rating **	M	Issue No.	641
LM End	1.92	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.231880 °	39.231880 °
				-122.015432 °	-122.015432 °
DWR ID					

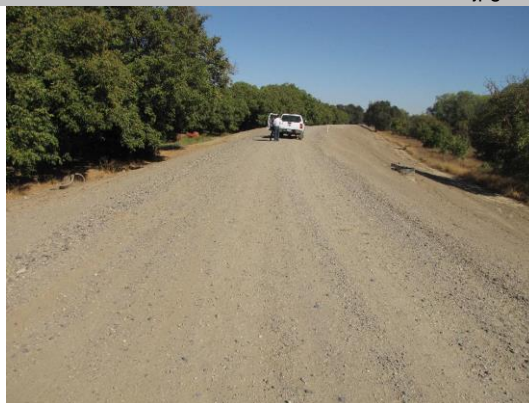
Comment Code

Inspector Comment

FS_ID:51853
DS_ID:17565
EP_NO: 9487
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Ws end still partially plugged. (DWR Sutter Yard- AFreitag)10/24/2016 Ws pipe end still plugged.(DWR Sutter Yard- AFreitag)4/25/2016 WS pipe end still plugged with soil. rest of pipe appears in good condition.4/20/2015 WS pipe end plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still partially blocked with dirt and debris.10/18/2012 WS-remove dirt and debris in riser. Outlet deformed and blocked over 50%. Burrow activity near outlet on waterward slope. Debris around concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt.
FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe daylights on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].
FS Date: 5/19/2017 1:21:31 PM

LM Start	1.92	Rating **	M	Issue No.	641 (cont)
LM End	1.92	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_51853_70071.jpg



View of levee crown and slopes looking upstream at crossing.

Photo 2 of 3 : UCIP_SP_2017_51853_70074.jpg



View of CMP risers located on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	1.92	Rating **	M	Issue No.	641 (cont)
LM End	1.92	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.231880 °	39.231880 °
				-122.015432 °	-122.015432 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51853
DS_ID:17565
EP_NO: 9487
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Ws end still partially plugged. (DWR Sutter Yard- AFreitag)10/24/2016 Ws pipe end still plugged.(DWR Sutter Yard- AFreitag)4/25/2016 WS pipe end still plugged with soil. rest of pipe appears in good condition.4/20/2015 WS pipe end plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still partially blocked with dirt and debris.10/18/2012 WS-remove dirt and debris in riser. Outlet deformed and blocked over 50%. Burrow activity near outlet on waterward slope. Debris around concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt.
FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe daylights on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].
FS Date: 5/19/2017 1:21:31 PM

Photo 3 of 3 : UCIP_SP_2017_51853_70073.jpg



CMP pipe outlet deformed with over 50 percent blockage.

LM Start	2.16	Rating **	M	Issue No.	105
LM End	2.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.235107 °	39.235107 °
				-122.013567 °	-122.013567 °
DWR ID	DWR_MA0001_01 f _ 2016_105				

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Photo 1 of 1 : SP_2017_MA0001_297_105_20170315_00036.jpg



View of an erosion site along the waterside berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	2.23	Rating **	M	Issue No.	642
LM End	2.23	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.235993 °	39.235993 °	
			-122.012970 °	-122.012970 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:51854
DS_ID:16429
EP_NO: 9472
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 LS inlet partially plugged with soil. Some debris still present inside riser. (DWR Sutter Yard-AFreitag)10/24/2016 Debris still inside of riser.(DWR Sutter Yard-AFreitag)4/25/2016 Pipe still inside of riser and LS end plugged about 50% by soil.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 Remove debris from riser. Landward inlet is blocked by over 50%. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0128 for sediment build up at inlet (landward side) and debris inside riser. FIELD_STRUCT_DESC: 54-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. 48-inch CMP at landside (LS) slope. This crossing crosses the levee at an angle. (Automatic Board Order (ABO) issued as Permit No. 9472, 1974 - Ballard)) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+00)]. FS Date: 5/19/2017 1:23:34 PM

LM Start	2.23	Rating **	M	Issue No.	642 (cont)
LM End	2.23	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_51854_70078.jpg



View of levee crown looking downstream at crossing. CMP riser located on WS shoulder.

Photo 2 of 3 : UCIP_SP_2017_51854_70079.jpg



View of WS looking up slope and channel.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	2.23	Rating **	M	Issue No.	642 (cont)
LM End	2.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.235993 °	39.235993 °
				-122.012970 °	-122.012970 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51854
DS_ID:16429
EP_NO: 9472
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 LS inlet partially plugged with soil. Some debris still present inside riser. (DWR Sutter Yard-AFreitag)10/24/2016 Debris still inside of riser.(DWR Sutter Yard-AFreitag)4/25/2016 Pipe still inside of riser and LS end plugged about 50% by soil.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 Remove debris from riser. Landward inlet is blocked by over 50%. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0128 for sediment build up at inlet (landward side) and debris inside riser.
FIELD_STRUCT_DESC: 54-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. 48-inch CMP at landside (LS) slope. This crossing crosses the levee at an angle. (Automatic Board Order (ABO) issued as Permit No. 9472, 1974 - Ballard)) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+00)].
FS Date: 5/19/2017 1:23:34 PM

Photo 3 of 3 : UCIP_SP_2017_51854_70077.jpg



View of outlet located at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	2.25	Rating **	M	Issue No.	643
LM End	2.25	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.236178 °	39.236178 °
				-122.012812 °	-122.012812 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51855
DS_ID:16428
EP_NO: 9467
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing. Unable to locate any WS and LS pipe ends.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2012 Only riser visible. Debris and sediment blocking gate. Gate inside riser is buried and non-functional. If crossing is abandoned, owner needs to properly abandon. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0132 no culvert through the levee is visible here.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in CM pipe riser on the waterside (WS) slope. No signs of inlet visible on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9467, 1974 - Lovell E. Spurgeon)
[Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+60)].
FS Date: 5/19/2017 1:48:04 PM

LM Start	2.25	Rating **	M	Issue No.	643 (cont)
LM End	2.25	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_51855_70085.jpg



Overview of levee crown looking upstream at crossing.

Photo 2 of 3 : UCIP_SP_2017_51855_70084.jpg



View of WS slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	2.25	Rating **	M	Issue No.	643 (cont)
LM End	2.25	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.236178 °	39.236178 °	
			-122.012812 °	-122.012812 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:51855
DS_ID:16428
EP_NO: 9467
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Abandoned- needs to be done so properly.
(DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing. Unable to locate any WS and LS pipe ends.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2012 Only riser visible. Debris and sediment blocking gate. Gate inside riser is buried and non-functional. If crossing is abandoned, owner needs to properly abandon. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0132 no culvert through the levee is visible here.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in CM pipe riser on the waterside (WS) slope. No signs of inlet visible on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9467, 1974 - Lovell E. Spurgeon)
[Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+60)].
FS Date: 5/19/2017 1:48:04 PM

Photo 3 of 3 : UCIP_SP_2017_51855_70083.jpg



Unable to locate WS outlet.

LM Start	2.36	Rating **	M	Issue No.	108
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		39.237628 °	39.237628 °	
			-122.011967 °	-122.011967 °	
DWR ID	DWR_MA0001_01_f_2016_108				

Comment Code

S1 : Repair slope instability.

Inspector Comment

Photo 1 of 1 : SP_2017_MA0001_297_108_20170315_00040.jpg



View of the slope instability along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	3.33	Rating **	M	Issue No.	646
LM End	3.33	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.250843 °	39.250843 °
				-122.007992 °	-122.007992 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51859
DS_ID:16426
EP_NO: 9490
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Sediment build up in WS pipe end. WS slide gate stem bent but it does not affect its operation. (DWR Sutter Yard- A Freitag)10/24/2016 WS slide gate stem is still bent.(DWR Sutter Yard- A Freitag)4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up.10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0187 for sediment build up at landward toe.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Permit No. 9490, 1955 - Charles & Virginia Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 177+67)].
FS Date: 5/19/2017 1:53:31 PM

Photo 1 of 3 : UCIP_SP_2017_51859_70110.jpg



View of LS looking upstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	3.33	Rating **	M	Issue No.	646 (cont)
LM End	3.33	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.250843 °	39.250843 °
				-122.007992 °	-122.007992 °
DWR ID					

Photo 2 of 3 : UCIP_SP_2017_51859_70109.jpg



View of WS looking upstream.

Comment Code					
Inspector Comment					
<p>FS_ID:51859 DS_ID:16426 EP_NO: 9490 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Sediment build up in WS pipe end. WS slide gate stem bent but it does not affect its operation. (DWR Sutter Yard- A Freitag)10/24/2016 WS slide gate stem is still bent.(DWR Sutter Yard- A Freitag)4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up.10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0187 for sediment build up at landward toe. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Permit No. 9490, 1955 - Charles & Virginia Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 177+67)]. FS Date: 5/19/2017 1:53:31 PM</p>					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	3.33	Rating **	M	Issue No.	646 (cont)
LM End	3.33	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.250843 °	39.250843 °
				-122.007992 °	-122.007992 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51859
DS_ID:16426
EP_NO: 9490
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Sediment build up in WS pipe end. WS slide gate stem bent but it does not affect its operation. (DWR Sutter Yard- A Freitag)10/24/2016 WS slide gate stem is still bent.(DWR Sutter Yard- A Freitag)4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up.10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0187 for sediment build up at landward toe.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Permit No. 9490, 1955 - Charles & Virginia Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 177+67)].
FS Date: 5/19/2017 1:53:31 PM

Photo 3 of 3 : UCIP_SP_2017_51859_70111.jpg



View of WS slope, riser with slide gate, and outlet.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	3.88	Rating **	M	Issue No.	50
LM End	3.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.257125 °	39.257125 °
				-122.012648 °	-122.012648 °
DWR ID	DWR_MA0001_01_f_2013_50				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.86	Rating **	M	Issue No.	3
LM End	5.26	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.265730 °	39.266315 °
				-122.014925 °	-122.020682 °
DWR ID	DWR_MA0001_01_s_2016_3				
Comment Code					
Inspector Comment					
2009 - Slump in the middle of the section has left a vertical section on the bank. 2010 - Old cobble site unraveling, site extended downstream. 2015: Last observed in 2013. [2015 Site ID: SAC_151-0_R]					

Photo 1 of 1 : SP_2017_MA0001_297_3_20170315_00002.jpg



USACE 2013 Photo #1

LM Start	5.77	Rating **	M	Issue No.	35
LM End	5.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.272773 °	39.272773 °
				-122.023290 °	-122.023290 °
DWR ID	DWR_MA0001_01_s_2012_35				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	6.40	Rating **	M	Issue No.	658
LM End	6.40	Issue Type +	Ma	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.281721 °	39.281721 °	
			-122.021894 °	-122.021894 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:51874
DS_ID:16425
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Abandoned- needs to be done properly.
(DWR Sutter Yard- A Freitag)10/24/2016 Abandoned(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Need to be properly abandoned concrete structure; plate covers concrete box; Concrete headwall damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0262 for damage to concrete structure (vertical 2 inch wide cracks and spalling visible).
FIELD_STRUCT_DESC: *ABANDONED* 72-inch corrugated metal (precast concrete) drainage pipe through the levee at an unknown depth below the crown. Structure is blocked on the waterside (WS) end with 3-foot concrete plug installed in 1980. Slide gate in concrete well on the landside (LS) shoulder. Concrete headwall at both toes. WS headwall not found. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 339+74)].
FS Date: 5/23/2017 10:13:24 AM

LM Start	6.40	Rating **	M	Issue No.	658 (cont)
LM End	6.40	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_51874_70181.jpg



View of WS no structure features visible.

Photo 2 of 3 : UCIP_SP_2017_51874_70180.jpg



Overview of levee crown looking downstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	6.40	Rating **	M	Issue No.	658 (cont)
LM End	6.40	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.281721 °	39.281721 °
				-122.021894 °	-122.021894 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51874
DS_ID:16425
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Abandoned- needs to be done properly.
(DWR Sutter Yard- AFreitag)10/24/2016 Abandoned(DWR Sutter Yard- AFreitag)4/25/2016 Abandoned crossing.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Need to be properly abandoned concrete structure; plate covers concrete box; Concrete headwall damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0262 for damage to concrete structure (vertical 2 inch wide cracks and spalling visible).
FIELD_STRUCT_DESC: *ABANDONED* 72-inch corrugated metal (precast concrete) drainage pipe through the levee at an unknown depth below the crown. Structure is blocked on the waterside (WS) end with 3-foot concrete plug installed in 1980. Slide gate in concrete well on the landside (LS) shoulder. Concrete headwall at both toes. WS headwall not found. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 339+74)].
FS Date: 5/23/2017 10:13:24 AM

Photo 3 of 3 : UCIP_SP_2017_51874_70179.jpg



View of structure located in LS.

LM Start	6.85	Rating **	N	Issue No.	116
LM End	6.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.288092 °	39.288092 °
				-122.021062 °	-122.021062 °
DWR ID	DWR MA0001 01 f 2016 116				

Comment Code

T5 : Tree stumps.

Inspector Comment

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	7.28	Rating **	M	Issue No.	117
LM End	7.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.294273 °	39.294273 °
				-122.021493 °	-122.021493 °
DWR ID	DWR_MA0001_01_f_2016_117				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	7.70	Rating **	M	Issue No.	52
LM End	7.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.297303 °	39.297303 °
				-122.025257 °	-122.025257 °
DWR ID	DWR_MA0001_01_s_2012_52				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	8.72	Rating **	M	Issue No.	119
LM End	8.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.308272 °	39.308272 °
				-122.031215 °	-122.031215 °
DWR ID	DWR_MA0001_01_f_2016_119				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_119_20170315_00048.jpg



View of the slope instability caused by vehicles along the landside slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	10.13	Rating **	M	Issue No.	18
LM End	10.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.328697 °	39.328697 °
				-122.029262 °	-122.029262 °
DWR ID	DWR_MA0001_01_s_2012_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion site.					

Photo 1 of 1 : SP_2017_MA0001_297_18_20170315_00010.jpg



View of the erosion along the waterside of the levee.

LM Start	11.00	Rating **	M	Issue No.	120
LM End	11.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.340728 °	39.340728 °
				-122.032897 °	-122.032897 °
DWR ID	DWR_MA0001_01_f_2016_120				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_120_20170315_00049.jpg



View of the tree with overhanging branches.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	11.01	Rating **	M	Issue No.	12
LM End	11.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.340774 °	39.340774 °
				-122.032872 °	-122.032872 °
DWR ID	DWR_MA0001_01_s_2012_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	11.46	Rating **	M	Issue No.	121
LM End	11.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.347168 °	39.347168 °
				-122.031533 °	-122.031533 °
DWR ID	DWR_MA0001_01_f_2016_121				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Backfill and compact.					

Photo 1 of 1 : SP_2017_MA0001_297_121_20170315_00050.jpg



View of the low spot along the levee toe created by adjacent ditch overflow.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	12.24	Rating **	M	Issue No.	122
LM End	12.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.357322 °	39.358283 °
				-122.026590 °	-122.024717 °
DWR ID	DWR_MA0001_01_f_2016_122				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_122_20170315_00051.jpg



View of the Johnson grass along the levee toe and concrete lined ditch.

LM Start	12.69	Rating **	M	Issue No.	123
LM End	12.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.359810 °	39.359748 °
				-122.019402 °	-122.017600 °
DWR ID	DWR_MA0001_01_f_2016_123				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_123_20170315_00052.jpg



View of the Johnson grass along the levee toe.

LM Start	13.33	Rating **	M	Issue No.	124
LM End	13.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.365748 °	39.365748 °
				-122.015633 °	-122.015633 °
DWR ID	DWR_MA0001_01_s_2017_124				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_124_20170315_00053.jpg



View of the slope instability caused by vehicles along the landside slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	13.46	Rating **	M	Issue No.	125
LM End	13.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.367600 °	39.367600 °
				-122.015248 °	-122.015248 °
DWR ID	DWR_MA0001_01_f_2016_125				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_125_20170315_00054.jpg



View of the landside toe erosion caused by ag pipe.

LM Start	14.18	Rating **	M	Issue No.	127
LM End	14.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.377288 °	39.377288 °
				-122.012360 °	-122.012360 °
DWR ID	DWR_MA0001_01_f_2016_127				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Minor sinkhole on the landside toe.					

Photo 1 of 1 : SP_2017_MA0001_297_127_20170315_00056.jpg



View of a small sinkhole along the levee.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	14.80	Rating **	M	Issue No.	129
LM End	14.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.386008 °	39.386008 °
				-122.014270 °	-122.014270 °
DWR ID	DWR_MA0001_01_f_2016_129				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_129_20170315_00058.jpg



View of the slope instability caused by vehicles along the landside slope.

LM Start	15.86	Rating **	N	Issue No.	131
LM End	15.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.400875 °	39.400875 °
				-122.009680 °	-122.009680 °
DWR ID	DWR_MA0001_01_f_2016_131				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
About 7 stumps on the landside.					

No Photos

LM Start	15.99	Rating **	M	Issue No.	132
LM End	15.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.402605 °	39.402605 °
				-122.009348 °	-122.009348 °
DWR ID	DWR_MA0001_01_f_2016_132				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0001_297_132_20170315_00060.jpg



View of the rodent holes along the landside slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2017 03/24/2017	Bob Duffey

LM Start	16.35	Rating **	M	Issue No.	9
LM End	16.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.407837 °	39.411111 °
				-122.008763 °	-122.009238 °
DWR ID	DWR_MA0001_01_s_2016_9				
Comment Code					
Inspector Comment					
Erosion site added in 1997 and removed in 2005. 2009 - Site added back in, hard toe with slow moving erosion. Potential geotechnical failure. 2011 - Site extended downstream. 2015: Last observed in 2013. [2015 Site ID: SAC_164-3_R]					

Photo 1 of 2 : SP_2017_MA0001_297_9_20170315_00007.jpg



USACE 2013 Photo #1

LM Start	16.35	Rating **	M	Issue No.	9 (cont)
LM End	16.58	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2017_MA0001_297_9_20170315_00008.jpg



USACE 2013 Photo #2

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---